05702

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/008, 524
Source: 01PE

Date Processed by STIC: 7-3-02-

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

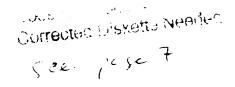
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

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RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/10/008,524

TIME: 09:41:31

Input Set : A:\Cms0173.txt

42 1 5 10 44 Ala Ash Ser Ser Arg Ash Ala Val Ala Leu Ser Ala Ser Pro Glin Leu

55

7.0

47 Lys Glu Ala Gln Ser Glu Lys Glu Glu Ala Pro Lys Pro Leu His Lys

40 50 Val Val Cys Val Ser Lys Leu Ser Lys Lys Gln Ser Glu Leu

53 Ash Gly Ile Ala Ala Ser Leu Gly Ala Asp Tyr Arg Trp Ser Phe Asp

25

4.5

6.0

7.5

Output Set: N:\CRF3\07032002\J008524.raw

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3 <110 > APPLICANT: Doorbar, John
      5 -: 120> TITLE OF INVENTION: IMPROVEMENTS IN OR RELATING TO SCREENING FOR PAPILLOMA
             VIRUSES
      8 :130> FILE REFERENCE: 18396/1074
     10 <1140> CURRENT APPLICATION NUMBER: 10/008,524
C--> 11 <141> CURRENT FILING DATE: 2002-06-17
     13 ::150> PRIOR APPLICATION NUMBER: 09/314,268
     14 <:151> PRIOR FILING DATE: 1999-05-18
     16 :160> NUMBER OF SEQ ID NOS: 179
     18 -: 170> SOFTWARE: PatentIn Ver. 2.1
     20 -: 210> SEQ ID NO: 1
     21 -(211> LENGTH: 375
     22 <212> TYPE: DNA
     23 ::213> ORGANISM: Human papillomavirus type 16
     25 -: 400> SEQUENCE: 1
     26 gogetgeeac teteagaagt tattgteaaa aacttgeaac ttgetttgge aaatagetet 60
     27 egaaatgetg tegetettte tgecageeet eaactgaaag aggeeeagte agagaaggaa 120
     28 gaageeecaa ageeacttea caaagtagtg gtatgtgtta gtaaaaaact cagtaagaag 180
     29 cagagtgaac taaatgggat egcageetet etaggageag attacaggtg gagttttgat 240
     30 qaaacagtga ctcatttcat ctatcaaggg cggccaaatg acactaatcg ggagtataaa 300
     31 totgtaaaag aaagaggagt acacattgtt toogagcact ggottttaga ttgtgoocaa 360
     32 gagtgtaaac atctt
     35 -: 210> SEQ ID NO: 2
     36 -: 211> LENGTH: 125
     37 -(212> TYPE: PRT
     38 -: 213> ORGANISM: Homo sapiens
     40 -:400> SEQUENCE: 2
     41 Ala Leu Pro Leu Ser Glu Val Ile Val Lys Asn Leu Gln Leu Ala Leu
```

54 65

4.5

48 35

51 50

2.0

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/008,524

DATE: 07/03/2002 TIME: 09:41:31

Input Set : A:\Cms0173.txt

Output Set: N:\CRF3\07032002\J008524.raw

66 < 210 > SEQ ID NO: 3 67 <211. LENGTH: 491 68 <212> TYPE: PRT 69 <213> ORGANISM: Homo sapiens 71 <400> SEQUENCE: 3 72 Ala Pro Glu Glu His Asp Ser Pro Thr Glu Ala Ser Gln Pro Ile Val 73 1 5 10 75 Glu Glu Glu Glu Thr Lys Thr Phe Lys Asp Leu Gly Val Thr Asp Val 20 78 Leu Cys Glu Ala Cys Asp Gln Leu Gly Trp Thr Lys Pro Thr Lys Ile 35 40 81 Gln Ile Glu Ala Tyr Ser Leu Ala Leu Gln Gly Arg Asp Ile Ile Gly 55 84 Leu Ala Glu Thr Cly Ser Cly Lys Thr Gly Ala Phe Ala Leu Pro Ile 70 87 Leu Asn Ala Leu Leu Glu Thr Pro Gln Arg Leu Phe Ala Leu Val Leu 85 90 90 Thr Pro Thr Arg Ser Trp Pro Phe Arg Ser Gln Ser Ser Leu Lys Pro 105 110 91 100 93 Trp Ser Ser Ile Gly Val Gln Ser Ala Val Ile Val Gly Gly Ile Asp 94 115 120 125 96 Ser Met Ser Gln Ser Leu Ala Leu Ala Lys Lys Pro His Ile Ile Ile 135 99 Ala Thr Pro Gly Arg Leu Ile Asp His Leu Glu Asn Thr Lys Gly Phe 150 155 102 Asn Leu Arg Ala Leu Lys Tyr Leu Val Met Asp Glu Ala Asp Arg Ile 175 103 165 170 105 Leu Asn Met Asp Phe Glu Thr Glu Val Asp Lys Ile Leu Lys Val Ile 190 106 180 185 108 Pro Arg Asp Arg Lys Thr Phe Leu Phe Ser Ala Thr Met Thr Lys Lys 200 111 Val Gln Lys Leu Gln Arg Ala Ala Leu Lys Asn Pro Val Lys Cys Ala 210 215 114 Val Ser Ser Lys Tyr Gln Thr Val Glu Lys Leu Gln Gln Tyr Tyr Ile 230 235 117 Phe Tie Pro Ser Lys Phe Lys Asp Thr Tyr Leu Val Tyr I.e Leu Ash 116 245 250 120 Glu Leu Ala Gly Ash Ser Phe Met Ile Phe Cys Ser Thr Cys Ash Ash 260 265 123 Thr Gln Arg Thr Ala Leu Leu Leu Arg Ash Leu Gly Pho Thr Ala 110 275 280 126 Pro Leu His Gly Gln Met Ser Lys Arg Leu Gly Ser Leu Asn Lys Phe 295 300 127 290 129 Lys Ala Lys Ala Arg Ser Ile Leu Leu Ala Thr Asp Val Ala Ser Arg 310 315 132 Gly Leu Asp Ile Pro His Val Asp Val Val Asn Phe Asp Ile Pro RAW SEQUENCE LISTING DATE: 07/03/2002 PATENT APPLICATION: US/10/008,524 TIME: 09:41:31

Input Set : A:\Cms0173.txt

Output Set: N:\CRF3\07032002\J008524.raw

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13d Gly Arg Ser Gly Lys Ala Ile Thr Pho Val Thr Cln Tyr Asp Val Glu
139
            355
                                360
141 Leu Phe Gln Arg Ile Glu His Leu Ile Gly Lys Lys Leu Pro Gly Phe
142
    370
                            375
                                                380
144 Pro Thr Gln Asp Asp Glu Val Met Met Leu Thr Glu Arg Val Ala Glu
                        390
147 Ala Gln Arg Phe Ala Arg Met Glu Leu Arg Glu His Gly Glu Lys Lys
148
                    405
                                         410
                                                             415
150 Lys Arg Ser Arg Glu Asp Ala Gly Asp Asn Asp Asp Thr Arg Gly Cys
151
                420
                                    425
153 Tyr Val Cys Gln Glu Gln Gly Gly Trp Arg Lys Asn Glu Glu Ala Glu
           435
                                440
156 Arg Pro Leu Ile Thr Phe Met Lys Ala Arg Val Leu Leu Phe Cys Lys
                            455
159 Arg Glu Leu Glu Asn Glu Thr Cys Ser Asn Arg Asp His Glu Thr Glu
                                            475
                        470
160 465
162 Ile Gly Gln Asn Cys Val Gln Asn Val Leu Ser
                   485
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 25
168 <:212> TYPE: PRT
169 <213> ORGANISM: Human papillomavirus type 16
171 <400> SEQUENCE: 4
172 Arg Pro Ile Pro Lys Pro Ser Pro Trp Ala Pro Lys Lys His Arg Arg
                    5
173 1
175 Leu Ser Asp Gln Asp Ser Gln Thr Pro
176
                 20
179 -: 210> SEQ ID NO: 5
180 <1211> LENGTH: 8
181 -: 212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 - 1220 > FEATURE:
185 (223) OTHER INFORMATION: Description of Artificial Sequence: synthetic
         octapeptide antigen
188 (400> SEQUENCE: 5
199 Met Ala Asp Pro Ala Ala Ala Thr
100
133 \cdot ... 10 \cdot \text{SEQ ID NO: } 6
194 - 2115 LENGTH: 8
195 WHIS TYPE: PRT
196 - 213 > ORGANISM: Artificial Sequence
198 - 220> FEATURE:
199 - 223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
200 octapeptide antigen
201 -4005 SEQUENCE: 6
203 Ala Asp Pro Ala Ala Ala Thr Lys
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RAW SEQUENCE LISTING DATE: 07/03/2002 PATENT APPLICATION: US/10/008,524 TIME: 09:41:31

Input Set : A:\Cms0173.txt

Output Set: N:\CRF3\07032002\J008524.raw

209 -: 212> TYPE: PRT 210 :213 > ORGANISM: Artificial Sequence 212 -: 1220 - FEATURE: 213 <223 > OTHER INFORMATION: Description of Artificial Sequence: synthetic octapeptide antigen 216 - 400 > SEQUENCE: 7 217 Asp Pro Ala Ala Ala Thr Lys Tyr 218 1 221 <210 + SEQ ID NO: 8 222 -: 211 - LENGTH: 8 223 -:212 - TYPE: PRT 224 - 213 · ORGANISM: Artificial Sequence 226 -: 220. FEATURE: 227 <223 OTHER INFORMATION: Description of Artificial Sequence, synthetic octapeptide antigen 230 -400> SEQUENCE: 8 231 Pro Ala Ala Ala Thr Lys Tyr Pro 232 1 235 <210> SEQ ID NO: 9 236 <211> LENGTH: 8 237 <212> TYPE: PRT 238 <213> ORGANISM: Artificial Sequence 240 <220> FEATURE: 241 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic 242 octapeptide antigen 244 <400> SEQUENCE: 9 245 Ala Ala Ala Thr Lys Tyr Pro Leu 246 1 249 -210> SEQ ID NO: 10 250 <211> LENGTH: 8 251 <2212> TYPE: PRT 252 - 213: ORGANISM: Artificial Sequence 254 + 220> FEATURE: 255 (223) OTHER INFORMATION: Description of Artificial Sequence: synthetic 256 octapeptide antigen $358 \times 4 \text{ M/H}$ SEQUENCE: 10 25% Ala Ala Thr Lys Tyr Pro Leu Leu . 60 $263 \cdot 210 \Rightarrow \text{SEQ ID NO: } 11$ 164 - 2.1. LENGTH: 6 265 - 212> TYPE: PRT 266 - 213 ORGANISM: Artificial Sequence 268 - 220> FEATURE: 269 - 223> OTHER INFORMATION: Description of Artificial Sequence: synthetic 270 octapeptide antigen

272 -400> SEQUENCE: 11

RAW SEQUENCE LISTING DATE: 07/03/2002 PATENT APPLICATION: US/10/008,524 TIME: 09:41:31

Input Set : A:\Cms0173.txt

Output Set: N:\CRF3\07032002\J008524.raw

278 <211 > LENGTH: 8 279 -1212 → TYPE: PRT 280 <213 - ORGANISM: Artificial Sequence 282 -:220> FEATURE: 283 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic octapeptide antigen 286 -: 400> SEQUENCE: 12 287 Thr Lys Tyr Pro Leu Leu Lys Leu 288 1 291 <210> SEQ ID NO: 13 292 <211> LENGTH: 8 293 <212> TYPE: PRT 294 <213> ORGANISM: Artificial Sequence 296 <220> FEATURE: 297 <223: OTHER INFORMATION: Description of Artificial Sequence: synthetic octapeptide antigen 300 <400> SEQUENCE: 13 301 Lys Tyr Pro Leu Leu Lys Leu Leu 302 1 305 <210> SEQ ID NO: 14 306 <211> LENGTH: 8 307 <212> TYPE: PRT 308 <213> ORGANISM: Artificial Sequence 310 <220> FEATURE: 311 <223: OTHER INFORMATION: Description of Artificial Sequence: synthetic 312 octapeptide antigen 314 <400> SEQUENCE: 14 315 Tyr Pro Leu Leu Lys Leu Leu Gly 316 1 5 319 <210> SEQ ID NO: 15 320 <211> LENGTH: 8 321 <212> TYPE: PRT 322 <213> ORGANISM: Artificial Sequence 324 <1220> FEATURE: 325 (B.3) OTHER INFORMATION: Description of Artificial Sequence: synthetic octapeptide antigen 328 <400> SEQUENCE: 15 314 Pro Leu Leu Lys Leu Leu Gly Ser 3 30 - 1 333 < 2100 SEQ ID NO: 16 334 < 211 :> LENGTH: 8 335 + 2120 TYPE: PRT 336 - 213> ORGANISM: Artificial Sequence 338 <220> FEATURE: 339 <2.30 OTHER INFORMATION: Description of Artificial Sequence: synthetic

coctapeptide antigen

340

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/008,524

DATE: 07/03/2002 TIME: 09:41:32

Input Set : A:\Cms0173.txt

Output Set: N:\CRF3\07032002\J008524.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:174; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:174; N Pos. 43,44,45,46,47,48,49

Seq#:177; N Pos. 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56.57,58,59

Seq#:177; N Pos. 60,61,62,63,64,65,66

Seq#:178; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:178; N Pos. 43,44,45,46,47,48,49

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/008,524

DATE: 07/03/2002

TIME: 09:41:32

Input Set : A:\Cms0173.txt

Output Set: N:\CRF3\07032002\J008524.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of $\langle 220 \rangle$ to $\langle 223 \rangle$ is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:174; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:174; N Pos. 43,44,45,46,47,48,49

Seq#:177; N Pos. 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59

Seq#:177; N Pos. 60,61,62,63,64,65,66

|Seq#:178; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:178; N Pos. 43,44,45,46,47,48,49

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/008,524

DATE: 07/03/2002

TIME: 09:41:32

Input Set : A:\Cms0173.txt

Output Set: N:\CRF3\07032002\J008524.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:2900 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:174 L:2900 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:174 L:2900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0 L:2940 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:177 L:2940 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:177 L:2940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0 L:2941 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:177 L:2941 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:177 L:2941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:60 L:2954 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:178 L:2954 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:178 L:2954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:0